

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO.1</u></b></p> <p><b><u>BILL NO.1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries are for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1  Bill No. 1  Preliminaries</p> <p><b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b></p>			R

**PREAMBLES FOR TRADES**

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

**GENERAL**

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value

**SECTION A - PRINCIPAL BUILDING AGREEMENT**

**Definitions (A1)**

1 Definitions and interpretation (clause 1)

F:..... V:..... T:.....

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**Objective and Preparation (A2 to A14)**

2 Offer acceptance and performance (clause 2)  
 F:..... V:..... T:.....

Item

3 Documents (clause 3)  
 F:..... V:..... T:.....

Item

4 Design responsibility (clause 4)  
 F:..... V:..... T:.....

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**CONSTRUCTION OF SANITATION FACILITIES**  
**AT NGOATO A NAPE SECONDARY SCHOOL**

5 Employer's agents (clause 5)  
 F:..... V:..... T:.....

The principal agent shall:

- monitor and control progress and scheduling
- monitor all contract conditions, and
- coordinate the efforts of the employer's agents, the contractor and subcontractors

The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part

The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process

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6 Site representative (clause 6)  
 F:..... V:..... T:.....

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7 Compliance with regulations (clause 7)  
 F:..... V:..... T:.....

Sub-clause 7.3 added:  
 The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work.

Sub-clause 7.3.1 is added:  
 Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement.”

Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.

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8	Works risk (clause 8) F:..... V:..... T:.....			
		Item		
9	Indemnities (clause 9) F:..... V:..... T:.....			
		Item		
10	Works insurances (clause 10) F:..... V:..... T:.....			
		Item		
11	Liability insurances (clause 11) F:..... V:..... T:.....			
		Item		
12	Effecting insurance (clause 12) F:..... V:..... T:.....			
		Item		
13	NO CLAUSE			N/A
14	Security (clause 14)  The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)  F:..... V:..... T:.....			
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**Execution (A15-A23)**

15 Preparation for and execution of the works (clause 15)

F:..... V:..... T:.....

Item

16 Access to the works (clause 16)

F:..... V:..... T:.....

Item

17 Contract instructions (clause 17)

F:..... V:..... T:.....

Item

18 Setting out of the works (clause 18)

F:..... V:..... T:.....

The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments

Item

19 Assignment (clause 19)

F:..... V:..... T:.....

The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer

Item

20 Nominated subcontractors (clause 20)

F:..... V:..... T:.....

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21 Selected subcontractors (clause 21)  
 F:..... V:..... T:.....  
 Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted  
 All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors

Item

22 Employer's Direct Contractors (clause 22)  
 F:..... V:..... T:.....

Item

23 Contractor's Domestic Sub-Contractors (Clause 23)  
 F:..... V:..... T:.....

Item

**Completion (A24-A30)**

24 Practical completion (clause 24)  
 F:..... V:..... T:.....

Item

25 Works completion (clause 25)  
 F:..... V:..... T:.....

Item

26 Final completion (clause 26)  
 F:..... V:..... T:.....

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27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item	
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item	
29	Revision of date of practical completion (clause 29) F:..... V:..... T:.....  The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item	
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item	
<b><u>Payment (A31 - A35)</u></b>			
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item	
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32 Adjustment to the contract value (clause 32)

F:..... V:..... T:.....

Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing

Item

33 Recovery of expense and loss (clause 33)

F:..... V:..... T:.....

Item

34 Final account and final payment (clause 34)

F:..... V:..... T:.....

The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion

The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account

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35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item	
<b><u>Cancellation (A36-A39)</u></b>			
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item	
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item	
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item	
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item	
<b><u>Dispute (A40)</u></b>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item	
<b><u>Substitute Provisions (A41)</u></b>			
41	State clauses (Clause 41) F:..... V:..... T:.....	Item	
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**THE SCHEDULE**

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder

42 Pre-tender information (clause 42)

F:..... V:..... T:.....

Item

**42.1 CONTRACTING AND OTHER PARTIES**

42.1.1 Employer: The Mvula Trust

42.1.2 Principal Agent: SRSQS Quantity Surveyors [Pty] Ltd

**42.2 CONTRACT DETAILS**

42.2.1 Works Description: Construction of water and sanitation facilities

42.2.2 Site Description: As per the information provided in the tender data

42.2.3 Work or installations by direct contractors:  
  
As per the information provided in the tender data

42.2.4 This agreement is for a government contract where there are specific options that are applicable to a **State** organ only

Yes

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42.2.5 Date on which possession of the site is intended to be given:

As per the information provided in the tender data

42.2.6 Period for the commencement of the works after the contractor takes possession of site:

Seven days

42.2.7 For the works **as a whole**. Intended date of practical completion and the penalty per calendar day

Intended Date of Practical Completion: As per the information provided in the tender data

*Penalty Amount:*  
*The penalty per calendar day shall be: 0.05% per R100 of the contract value (inclusive of value added tax)*

42.2.8 For the works in **sections**: Intended date of practical completion and the penalty per calendar day

**Section 1**  
N/A..... Date  
N/A..... Penalty Amount

42.2.9 The **law** applicable to this **agreement** shall be that of:

*South Africa (Country)*

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**42.3 INSURANCES**

42.3.1 Contract works insurance to be effected by:

*Contractor:*

*For the Sum of R Contract Amount + 10.00 %*

*With a deductible amount the contractor deems appropriate*

42.3.2 Supplementary insurance is required:

*No*

42.3.3 Public liability insurance to be effected by:

*Contractor:*

*For the Sum of R 5 000 000-00*

*With a deductible amount the contractor deems appropriate*

**42.4 DOCUMENTS**

42.4.1 Waivers of **contractors lien** or right of continuing possession is required

Yes

42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:

3 Number of

42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:

“Standard System of Measuring Builders’ Work”

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42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within:

**5 Working days**

*The priced bills of quantities must be handed in with the tender*

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

No

Where **JBCC CPAP** is to be used

*Base Month N/A*

42.4.7 Details of changes made to the provision of JBCC standard documentation:

Part 1 - Contract Data completed by the Employer

**SECTION B: PRELIMINARIES**

**Definitions and interpretation (B1)**

43 Definition and interpretation (B1.1 - B1.4.6)

F:..... V:..... T:.....

Item

**Documents (B2)**

44 Checking of documents (B2.1)

F:..... V:..... T:.....

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45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A	
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item	
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item	
48	Priced documents (B2.5) F:..... V:..... T:.....	Item	
49	Tender submission (B2.6) F:..... V:..... T:.....	Item	
50	Defined works area (B3.1) F:..... V:..... T:.....	Item	
<b><u>The site (B3)</u></b>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item	
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item	
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Existing premises occupied (B3.4)

F:..... V:..... T:.....

Specific requirements:

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.

Previous work - dimensional accuracy (B3.5)

F:..... V:..... T:.....

Previous work - defects (B3.6)

F:..... V:..... T:.....

53 Services - known (B3.7)

F:..... V:..... T:.....

Item

54 Services - unknown (B3.8)

F:..... V:..... T:.....

Item

55 Protection of trees etc (B3.9)

F:..... V:..... T:.....

Item

56 Articles of value (B3.10)

F:..... V:..... T:.....

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**Management of contract (B4)**

57 Inspection of adjoining properties etc (B3.11)  
 F:..... V:..... T:.....

Item

58 Management of the works (B4.1)  
 F:..... V:..... T:.....

Item

59 Programme for the works (B4.2)  
 F:..... V:..... T:.....

Item

60 Progress meetings (B4.3)  
 F:..... V:..... T:.....

Item

61 Technical meetings (B4.4)  
 F:..... V:..... T:.....

Item

62 Labour and Plant records (B4.5)  
 F:..... V:..... T:.....

Item

**Samples, Shop Drawings and Manufacturer's Instructions (B5)**

63 Samples of materials (B5.1)  
 F:..... V:..... T:.....

Item

64 Workmanship samples (B5.2)  
 F:..... V:..... T:.....

Item

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65	Shop drawings (B5.3) F:..... V:..... T:.....	Item	
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item	
<b><u>Temporary works and plant (B6)</u></b>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item	
68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item	
69	Advertising (B6.3) F:..... V:..... T:.....	Item	
70	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item	
71	Main notice board (B6.5) F:..... V:..... T:.....	Item	
72	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	N/A	
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**Temporary services (B7)**

73 Location (B7.1)  
 F:..... V:..... T:.....

Item

74 Water (B7.2)  
**Option [A] shall apply**  
 F:..... V:..... T:.....

Item

75 Electricity (B7.3)  
**Option [A] shall apply**  
 F:..... V:..... T:.....

Item

76 Telecommunication facilities (B7.4)  
 F:..... V:..... T:.....

Item

77 Ablution facilities (B7.5)  
**Option [A] shall apply**  
 F:..... V:..... T:.....

Item

**Prime cost amounts (B8)**

78 Responsibility for prime cost amounts (B8.1)  
 F:..... V:..... T:.....

Item

**Attendance on N/S Subcontractors (B9)**

79 General attendance (B9.1)  
 F:..... V:..... T:.....

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80	Special attendance (B9.2) F:..... V:..... T:.....	Item	
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item	
	<b><u>Financial aspects (B10)</u></b> Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item	
82	Payment of preliminaries (B10.2) <div style="text-align: right;"><b>Option [B] shall apply</b></div> F:..... V:..... T:.....	Item	
83	Adjustment of preliminaries (B10.3) <div style="text-align: right;"><b>Option [A] shall apply</b></div> F:..... V:..... T:.....	Item	
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item	
	<b><u>General (B11)</u></b> Protection of works (B11.1) F:..... V:..... T:.....	Item	
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86	<p>Protection/isolation of existing/sectionally occupied works (B11.2)</p> <p>F:..... V:..... T:.....</p>	Item	
87	<p>Security of the Works (B11.3)</p> <p>The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)</p> <p>F:..... V:..... T:.....</p>	Item	
88	<p>Notice before covering work (B11.4)</p> <p>F:..... V:..... T:.....</p>	Item	
89	<p>Disturbance (B11.5)</p> <p>F:..... V:..... T:.....</p>	Item	
90	<p>Environmental Disturbance (B11.6)</p> <p>F:..... V:..... T:.....</p>	Item	
91	<p>Works cleaning and clearing (B11.7)</p> <p>F:..... V:..... T:.....</p>	Item	
92	<p>Vermin (B11.8)</p> <p>F:..... V:..... T:.....</p>	Item	
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93	Overhand work (B11.9) F:..... V:..... T:.....	Item	
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item	
95	As built information (B11.11) F:..... V:..... T:.....	Item	
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item	
<b><u>Schedule of variables (B12)</u></b>			
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item	
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:		No
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete		No
	12.1.3 Interest of agents (B2.4)		
	12.1.4 Defined works area (B3.1)		
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<p>12.1.5 Geotechnical investigation (B3.2)</p> <p style="text-align: right; margin-right: 20px;">N/A</p> <p>12.1.6 Existing premises occupied (B3.4)</p> <p>12.1.7 Previous work - dimensional accuracy (B3.4)</p> <p>12.1.8 Previous work - defects (B3.5)</p> <p>12.1.9 Services - known (B3.7)</p> <p>12.1.10 Protection of trees (B3.9)</p> <p>All trees should be protected and only on instruction of the Principal Agent may any trees be removed</p> <p>12.1.12 Enclosure of the works (B6.2)</p> <p>12.1.11 Inspection of adjoining properties (B3.11)</p> <p>12.1.13 Offices (B6.4.3)</p> <p style="margin-left: 40px;">Specific requirements:</p> <p style="margin-left: 40px;">The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</p>				
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12.1.14 Main notice board (B6.5)				
	YES			
12.1.15 Subcontractors notice board (B6.6)				
A notice board is required	Yes			
12.1.16 Water (B7.2)				
Alternative Selected: A				
12.1.17 Electricity (B7.3)				
Alternative selected: A				
12.1.18 Telecommunications (B7.4)				
12.1.19 Ablution facilities (B7.5)				
Alternative selected: A				
12.1.20 Protection of existing/sectionally occupied works (B11.2)				
12.1.21 Special attendance (B9.2)				
Subcontractor (1) details:				
	N/A			
12.1.22 Protection of the works (B11.1)				
	N/A			
12.1.23 Disturbance (B11.5)				
	N/A			
<b>Carried to Collection</b>				
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			R	

12.1.24 Environmental Disturbance (B11.6)

N/A

**Post tender information (B12.2)**

12.2.1 Payment of preliminaries

Alternative selected: B

12.2.2 Adjustment of preliminaries

Alternative selected: A

12.2.3 Additional agreed preliminaries items

N/A

**SECTION C: SPECIFIC PRELIMINARIES**

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

98 **Site instructions**

Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor

F: ..... V:.....  
T:.....

Item

99 **Black economic empowerment and training**

F:..... V:..... T:.....

Item

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100	<p>Proprietary branded products</p> <p>F:..... V:..... T:.....</p>	Item	
101	<p><b>Testing of flat roof waterproofing for watertightness</b></p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p>	Item	
102	<p>Contract instructions</p> <p>F:..... V:..... T:.....</p> <p>Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor</p>	Item	
103	<p>Labour record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p>	Item	
<p><b>Carried to Collection</b></p>			R
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104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item	
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	Item	
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p>	Item	
<b>Carried to Collection</b>			R
<p>Section No. 1  Bill No. 1  Preliminaries  <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b></p>			

107	<p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> <p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>	Item		
108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the</p>			
	<b>Carried to Collection</b>			R
	<p>Section No. 1            Bill No. 1            Preliminaries  <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b></p>			

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provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained

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109 HIV/AIDS Awareness  
 F:..... V:..... T:.....

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained

110 Community Liaison Officer (CLO)  
 F:..... V:..... T:.....

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The contractor shall appoint a CLO from the community to deal with all labour issues, sub-contracting and provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that month

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>DEMOLITIONS</u></b></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><b><u>DEMOLITIONS OF EXISTING TOILET STRUCTURES</u></b></p>			
1	Demolish existing pit toilet structures size approximately 1000 x 900 wide x 1800m high including hacking up and removing foundations and surface beds, doors, windows and door frames, ironmongery and plumbing fittings complete. including carting away rubble and dispose off site, including backfilling of existing hole with G7 fill material in max 150mm compacted layers. Demolition is only to commence once the has been completely emptied and new toilets has been built	No	8	
2	Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and disposing thereof at an authorized municipal waste disposal facility.	No	8	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 1 DEMOLITIONS <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b></p> <p><b><u>BILL NO.2</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><b><u>SITE CLEARANCE</u></b></p> <p><b><u>Site clearance</u></b></p>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	95	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	95	
	<p><b><u>EARTHWORKS</u></b></p> <p><u>Excavation in earth not exceeding 2m deep:</u></p>			
3	Pit	m3	38	
	<u>Extra over trench and hole excavations in earth for excavation in:</u>			
4	Soft rock	m3	22	
	<b>Carried to Collection</b>			R
	<p>Section No. 2</p> <p>Bill No. 2</p> <p>EARTHWORKS</p> <p><b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b></p>			

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5	Hard rock	m3	10	
	<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	38	
	<u>Risk of collapse of excavations</u>			
7	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	40	
	<u>Keeping excavations free of water:</u>			
8	Keeping excavations free of water.		Item	
	<u>Soil insecticide</u>			
9	To bottoms and sides of trenches etc	m2	68	
	<u>Compaction of surfaces:</u>			
10	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	44	
<b>Carried to Collection</b>				R
Section No. 2 Bill No. 2 EARTHWORKS <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>				

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EARTHWORKS

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>SCREEN WALLS</u></b>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<b><u>SCREEN WALL ALL TRADES BILLS OF QUANTITIES</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches	m3	17	
	<u>Extra over trench and hole excavations in earth for excavation in:</u>			
2	Soft rock	m3	7	
3	Hard rock	m3	6	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	11	
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	<u>Risk of collapse of excavations:</u>				
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	38		
	<u>Keeping excavations free of water:</u>				
6	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u>				
7	Backfilling to trenches, holes, etc.	m3	6		
	<u>SOIL POISONING</u>				
8	To bottoms and sides of trenches, etc.	m2	51		
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<u>25Mpa/19mm Concrete:</u>				
9	Strip footings	m3	6		
	<b><u>MASONRY</u></b>				
	<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
10	One brick walls	m2	11		
	<b><u>FACE BRICKWORK</u></b>				
	<b>Carried to Collection</b>			R	
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Bill No. 3

SCREEN WALLS

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SCREEN WALLS

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	<b><u>SECTION 2</u></b>			
	<b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	-----			
	<u>Gratings, covers, etc</u>			
1	Precast concrete manhole cover and frame	No	1.00	
2	Lifting key for manhole cover	No	1.00	
	<b><u>ABLUTION STRUCTURES</u></b>			
	<u>"Amaloo" or similar approved Alternative Building Methods</u>			
3	Complete Substructure Pre-cast Components for Standard Seats - 910 x 1840 x 970mm supplied and installed complete with all the components, accessories, etc as per manufactures Specification.	No	8.00	
4	Complete Superstructure Precast Components for standard Seats - 910 x 1250 x 1975mm supply and install complete with all the wash hand basin, cistern, toilet seat, accessories, piping etc as per the manufactures specification	No	8.00	
	<b>Carried to Collection</b>			R
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5	Complete Substructure Pre-cast Components for Disabled Seats - 1860 x 1840 x 970mm supplied and installed complete with all the components, accessories, etc as per manufactures Specification.	No	1.00		
6	Complete Superstructure Precast Components for Disable Seats - 1860 x 1860 x 1975mm supply and install complete with all the wash hand basin, cistern, toilet seat, accessories, piping etc as per the manufactures specification	No	1.00		
7	Effective sealing of roofs for harvesting rainwater into the tanks inclusive of flashing and gutters	No	9.00		
	<b><u>SIGNAGE</u></b>				
8	Toilet symbol (Boys, girls, disabled and grade R)	No	9.00		
	<b><u>RAINWATER TANKS AND STANDS</u></b>				
	<u>Rainwater tanks:</u>				
9	500 Litre Polyethylene vertical water tank with and including two filters and steel stand	No	4.00		
10	Hole through top of tank lid for 100mm diameter pipe.	No	4.00		
	<b><u>TAPS, VALVES, ETC.</u></b>				
11	Approved 15mm standard brass hose bibtap with wingnut, lining and 15mm hose union, manufactured in accordance with SANS 226:2009 Type 2 (BS 1010).	No	4		
	<b><u>LOCKS</u></b>				
	<b><u>The following locks are to be suitable for master and grand master key operation</u></b>				
	<b>Carried to Collection</b>				R
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	<u>"Dorma" or similar approved</u>				
12	50mm Brass padlock with 28mm Stainless Steel shackle.	No	4		
	<u>TESTING</u>				
13	Allow for filling up water tanks and testing for leak detection		Item		
	<u>URINAL FACILITY</u>				
	<u>The following in urinal structures</u>				
14	Excavation in earth not exceeding 2m deep for base to urinal structure	m3	1.50		
15	Cartaway surplus materials from the excavations	m3	1.50		
16	Scarify and compact reduced levels	m2	2.00		
17	40mm Thick 5% soilcrete base layer	m2	2.00		
18	Soilcrete 5% backfill in base to urinal structure	m3	0.50		
	<u>"Amaloo" or similar approved Alternative Building Methods</u>				
19	Complete Urinal components structure size 950 x 1420 x 1970mm with and including all the components all in accordance to manufacturer's specification	No	1.00		
	<u>French Drain</u>				
20	French drain 4250mm long x 300mm wide x 900mm deep extreme including all necessary excavation complete with and including 110mm diameter porous pvc pipe 4000mm long and trench backfilled with dump rock surround to pvc pipe and to 500 x 500 x 500mm manhole at the outlet of the pvc pipe and top layer filled with and including gravel or 13mm stone filling including carting away surplus materials from the excavations.	No	1.00		
	<b>Carried to Collection</b>				R
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	<b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>				

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b></p> <p><b><u>BILL NO.5</u></b></p> <p><b><u>APRONS AND RAMPS</u></b></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><b><u>APRONS</u></b></p> <p><u>Compaction of surfaces</u></p>			
1	<p>Compaction of ground surface under ramps, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density</p>	m2	22	
	<p><u>Soil insecticide</u></p>			
2	<p>Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming</p>	m2	22	
	<p><u>Prescribed density tests on filling</u></p>			
3	<p>"Modified AASHTO Density" test</p>	No	5	
	<b>Carried to Collection</b>			R
	<p>Section No. 2            Bill No. 5            APRONS AND RAMPS  <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b></p>			

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	<u>15MPa/19mm unreinforced concrete</u>			
4	Aprons laid in panels	m3	3	
5	Stormwater channel cast in panels	m3	3	
6	Extra over concrete aprons for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	18	
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
7	Aprons to falls	m2	22	
	<u>Rough formwork to sides</u>			
8	Edges, risers, etc. not exceeding 300mm high or wide	m	18	
	<u>Grooves, channels, mortices, sinkings, etc. in concrete</u>			
9	Segmental channel with radius 290mm minimum depth of 100mm on top of concrete	m	22	
	<u>Fabric reinforcement</u>			
10	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	22	
	<b><u>RAMPS</u></b>			
	<u>Excavation in earth or compacted platforms not exceeding 2m deep</u>			
11	Trenches	m3	4	
	<u>Risk of collapse of excavations</u>			
12	Sides of trench and hole excavations not exceeding 1,5m deep	m2	16	
	<b>Carried to Collection</b>			R
	Section No. 2			
	Bill No. 5			
	APRONS AND RAMPS			
	<b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>			

**CLUSTER 11**  
**TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B**  
**CONSTRUCTION OF SANITATION FACILITIES**  
**AT NGOATO A NAPE SECONDARY SCHOOL**

	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
13	Backfilling to trenches, holes, etc	m3	2		
	<u>Compaction of surfaces</u>				
14	Compaction of ground surface under ramps, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	6		
	<u>Prescribed density tests on filling</u>				
15	"Modified AASHTO Density" test	No	2		
	<u>Soil poisoning and insecticide</u>				
16	Under ramps, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m2	6		
17	To bottoms and sides of trenches, etc	m2	26		
	<u>15MPa/19mm unreinforced concrete</u>				
18	Ramps laid in panels	m3	1		
19	Extra over concrete ramps for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	20		
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>				
20	Ramps to falls	m2	6		
	<u>Brickwork of NFX bricks in class I mortar</u>				
21	One brick walls in foundations	m2	7		
	<b>Carried to Collection</b>				
	Section No. 2				
	Bill No. 5				
	APRONS AND RAMPS				
	<b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>				

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**CLUSTER 11**  
**TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B**  
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Section No. 2

Bill No. 5

APRONS AND RAMPS

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Section No. 2

Bill No. 5

APRONS AND RAMPS

**PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b></p> <p><b><u>BILL NO.6</u></b></p> <p><b><u>PAVING</u></b></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><u>Site Clearance</u></p>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	158	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	158	
	<u>Open face excavation in earth over sloping site</u>			
3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	24	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	24	
	<b>Carried to Collection</b>			R
	Section No. 2 Bill No. 6 PAVING <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>			

**CLUSTER 11**  
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**CONSTRUCTION OF SANITATION FACILITIES**  
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	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>			
5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	52	
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	158	
	<u>Soil poisoning</u>			
7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasion 248,6 g/l) mixed in theproportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m <sup>2</sup> on cleared ground	m2	158	
	<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>			
8	Paving to toilet areas etc to falls	m2	158	
9	Fig. 7 kerbs to sides of paving	m	276	
10	15Mpa/19mm unreinforced concrete in haunching	m3	21	
	<b>Carried to Collection</b>			R
	Section No. 2			
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	PAVING			
	<b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>			

**CLUSTER 11**  
**TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B**  
**CONSTRUCTION OF SANITATION FACILITIES**  
**AT NGOATO A NAPE SECONDARY SCHOOL**

Section No. 2

Bill No. 6

PAVING

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Section No. 2

Bill No. 6

PAVING

**PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>ALTERNATIVE BUILDING TECHNOLOGY</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>RETAINING WALLS</u></b></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><b><u>EXCAVATION,FILLING, ETC</u></b></p> <p><u>Excavation in earth not exceeding 2m deep:</u></p>			
1	Trenches	m3	8	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock	m3	4	
3	Hard rock	m3	3	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	3	
	<b>Carried to Collection</b>			R
	Section No. 2 Bill No. 7 RETAINING WALLS <b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>			

**CLUSTER 11**  
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**CONSTRUCTION OF SANITATION FACILITIES**  
**AT NGOATO A NAPE SECONDARY SCHOOL**

	<u>Risk of collapse of excavations:</u>			
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	24	
	<u>Keeping excavations free of water:</u>			
6	Keeping excavations free of water other than subterranean water		Item	
	<u>Earth filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
7	Behind retaining walls.	m3	5	
	<u>Compaction of surfaces</u>			
8	Compaction of ground surface under floors, behind retaining walls etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	15	
	<u>Prescribed density tests on filling:</u>			
9	Modified AASHTO Density tests	No	4	
	<u>15Mpa/19mm Concrete:</u>			
10	Surface blinding under footings	m3	1	
	<u>25Mpa/19mm Concrete:</u>			
11	Strip footings	m3	4	
12	Cavity walls	m3	2	
	<b><u>TEST CUBES</u></b>			
13	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5	
	<b>Carried to Collection</b>			R
	Section No. 2			
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**CLUSTER 11**  
**TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B**  
**CONSTRUCTION OF SANITATION FACILITIES**  
**AT NGOATO A NAPE SECONDARY SCHOOL**

	<u>Mesh Reinforcement (measure nett):</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	16	
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
15	330mm Thick cavity walls made of two leaves of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured)	m2	16	
	<u>Brick reinforcement:</u>			
16	230mm Wide reinforcement built in horizontally	m	181	
	<u>Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:</u>			
17	Extra over brickwork for face brickwork in externally	m2	9	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
18	Extra over brickwork for brick-on-edge header course of one brick wall bedded and jointed in cement mortar and pointed on two sides as described	m	22	
	<u>Openings in brickwork</u>			
19	Leave or form 32mm weep hole through one brick wall	No	16	
	<u>19mm Single size selected and washed stone</u>			
20	300mm wide stone filter wrapped with and including non-woven geotextile bidim A2 or similar approved	m2	16	
	<u>"Kaytech" Kaymat U34 or other approved filter fabric</u>			
21	Vertically behind retaining wall	m2	16	
	<b>Carried to Collection</b>			R
	Section No. 2			
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	RETAINING WALLS			
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Section No. 2

Bill No. 7

RETAINING WALLS

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Bill No. 7

RETAINING WALLS

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Bill No	<u>SECTION SUMMARY - ALTERNATIVE BUILDING TECHNOLOGY</u>	Page No	Amount
1	DEMOLITIONS	35	
2	EARTHWORKS	38	
3	SCREEN WALLS	42	
4	PLUMBING AND DRAINAGE	46	
5	APRONS AND RAMPS	51	
6	PAVING	54	
7	RETAINING WALLS	58	
	<b>Carried to Final Summary</b>		R
	Section No. 2		
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**CLUSTER 11**  
**TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B**  
**CONSTRUCTION OF SANITATION FACILITIES**  
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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	34	
2	ALTERNATIVE BUILDING TECHNOLOGY	59	
	Sub Total A		R
	Provide 10% (TEN PERCENT) on sub-total (A) as Contingency to be deducted in whole or in part if not required		R
	Sub Total B		R
	Add Value Added Tax		R
	<b>Carried to Form of Tender</b>		R
	<b>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</b>		